

Agenda



Northeast Metropolitan Regional Vocational High School

- SBC Vote to Approve Prior Minutes
- OPM Update
- Designer Update
 - Preferred Schematic phase
 - Conceptual Options
 - Evaluation Matrix
- Discussion

Key Project Milestones



1. ELIGIBILITY PERIOD Congratulations--your school project has been invited 2. FORMING THE PROJECT TEAM to continue in the We jump right in to help you MSBA pipeline! select the Architect & establish the ProPay reimbursement process. **3. FEASIBILITY STUDY** YOU ARE We work together to deliver an HERE MSBA-approved Preliminary Design Program & Preferred 4. SCHEMATIC DESIGN Schematic Report. We assist in developing a final design program & in negotiating a Project Scope and Budget Agreement with the MSBA. 5. FUNDING THE PROJECT We stand by you in securing community/funding approval & in negotiating the MSBA 6. DETAILED DESIGN Project Funding Agreement. Guiding you through design, we also help to generate construction docs., procure bids & award a construction contract. 7. CONSTRUCTION Our team oversees the construction process while keeping a close eye on the 8. COMPLETING THE PROJECT budget, schedule & more. In project close-out, we work with you and the MSBA to finalize permits & to maximize grant reimbursements.

3

Key Project Milestones



Northeast Metropolitan Regional Vocational High School

AUGUST 2019JANUARY 2020JANUARY 2021LATE DECEMBER 2021OPM SelectionBegin Feasibility StudyBegin Schematic DesignLocal funding approval deadlineJANUARY 2020AUGUST 2020JUNE or JULY 2021besigner SelectionSBC approves PDPSBC approves SD/DESE design
Submit PDP to MSBA JULY 2021 SEPTEMBER 2020 Submit SD/DESE to MSBA SC approves Education Plan MSBA FAS Meeting DECEMBER 2020 AUGUST 2021 SBC approves PSR MSBA BOD approves project scope & budget

MSBA Process



Northeast Metropolitan Regional Vocational High School

Preferred Schematic Report

Goals:

- Summarize Process & Conclusions of the Preliminary Evaluation of Alternatives
- Substantiate & Document the Recommendation of a Preferred Solution

MSBA Process



Northeast Metropolitan Regional Vocational High School

Preferred Schematic Report

Content:

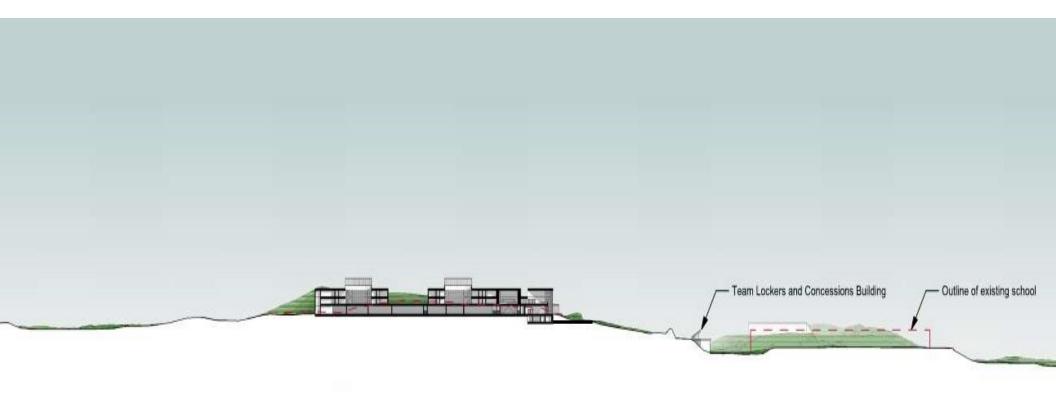
- Introduction- *Summary & Response to PDP Comments*
- Evaluation of Existing Conditions *update*
- Final Evaluation of Alternatives
- Preferred Solution
- Local Actions & Approvals





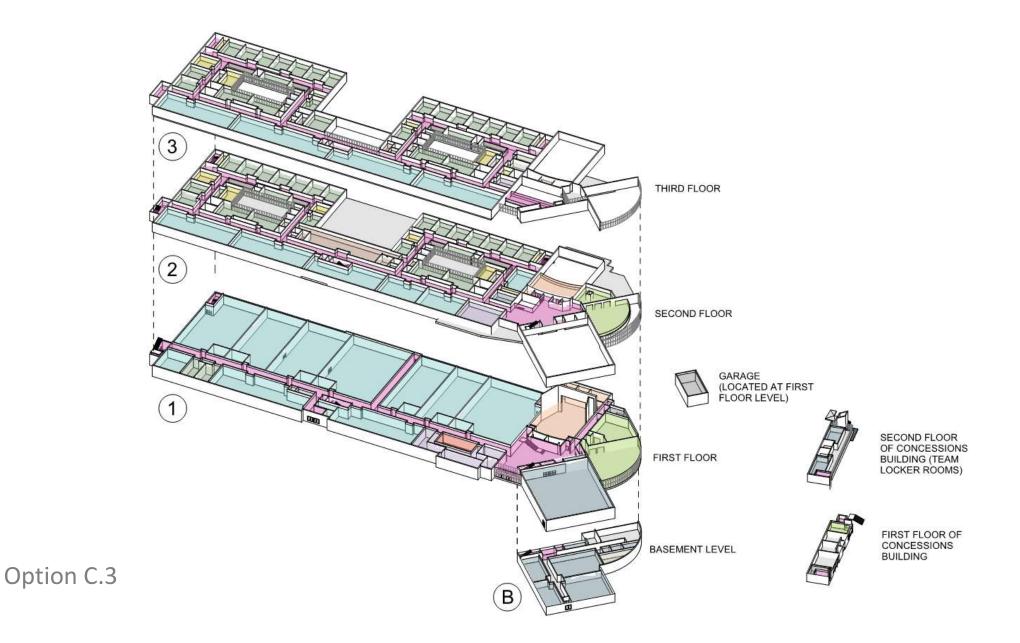


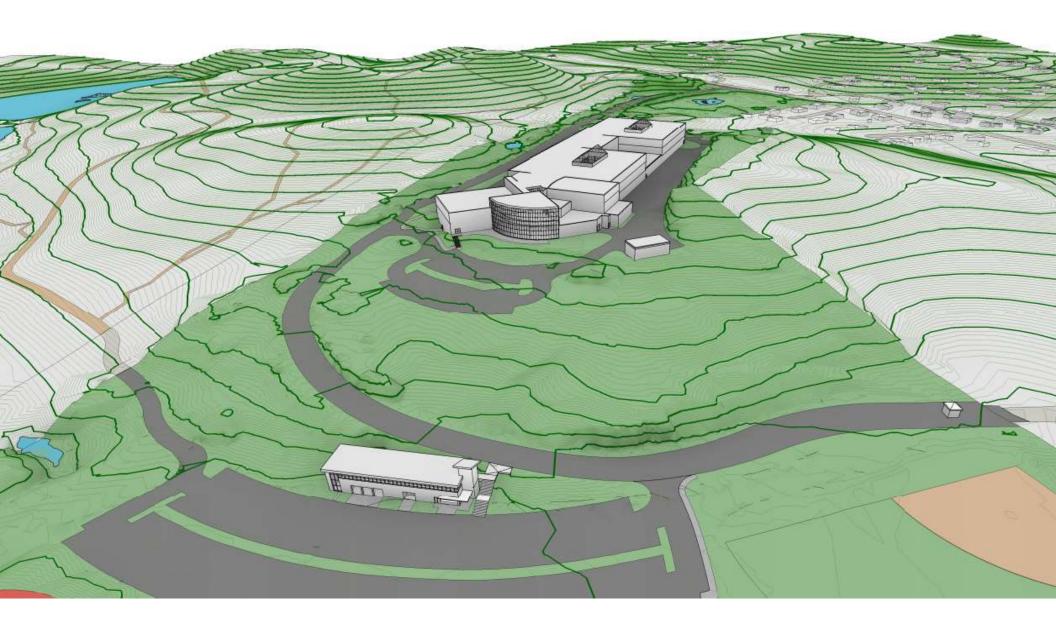




1" = 200'-0"







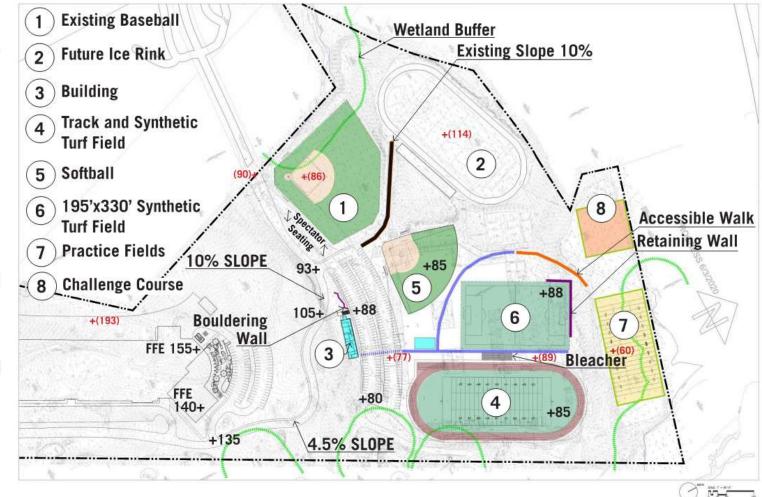
STUDY 2

Pros

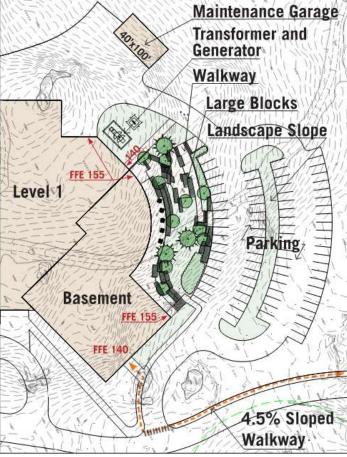
- North-south T&F orientation
- East facing bleacher
- All regulation fields about same elevation
- Side-by-side turf fields can be lit by 6 sports light poles
- Space for separate concession/ restroom hub
- Keep existing baseball field
- Parking: School = 81, Fields = 208

Cons

- Considerable fill at multi-sport field
- Breakheart parking integrated in main lot







CELEBRATE THE PICTURESQUE BREAKHEART RESERVATION



Preliminary Evaluation of Options Criteria

Education: Plan Accommodation, Compliance with Educational Vision

Costs: Project Cost, Reimbursement, Temporary Costs, Long-Term Value

Disruption: Impact, Phasing, Construction Duration

Flexibility: Design, Enrollment Accommodation, Expansion Potential

Maintenance: Operating Costs, Longevity

Site: Safety & Security, Access, Amenities

Preliminary Evaluation of Options

Preliminary Evaluation Matrix - Northeast Metro Tech - Concept Options - WORKING DRAFT

positive / most advantageous

negative / least advantageou

Updated:	12										
6/22/2020	Concept Options										
	MSBA Required	Renovation	Add/ Rei	Options		New Construction Options					
	Base Repair	Α	B.1	B.2	C.1	C.2	C.3				
Evaluation Criteria	Code Renovation						-				
Construction Duration:	multiple years	multiple years	3+ years	3+ years	2+ years	2+ years	2+ years				
Ed Plan Accomodation Compliance w/ Vision	doesn't address any educational deficiencies	not large enough to address space needs	difficult to accommodate Ed Plan; no Small Learning Communities; poor adjacencies of shops to academic spaces	difficult to accommodate Ed Plan; no Small Learning Communities; poor adjacencies of shops to academic spaces	good Ed Plan conformance; good adjacencies of CTE and academic spaces; no expansion potential; cannot accommodate highest enrollment	fair Ed Plan conformance with Small Learning Communities; uneven distribution of CTE shops; some flexibility and expansion potential	best Ed Plan conformance with Small Learning Communities, adjacencies & project spaces; some flexibility; limited expansion potential				
Project Cost Reimbursable Cost Temporary Costs Long-term Value			high temporary costs; structrured parking required; slightly higher reimbursement for renovation	high temporary costs; structrured parking required; slightly higher reimbursement for renovation	temporary sewer relocation required; tall retaining walls required;	high sitework costa	highest blasting & site development (roadwork, utilities) costs; highest long-term value				
Disruption Impact on Students Construction Duration Phasing			phased construction adjacent to occupancy; long construction schedule; requires temporary parking	phased construction adjacent to occupancy; long construction schedule; requires temporary parking	some impact to adjacent occupancy; service and utility interruptions	minimal impact to adjacent occupancy; loss of athletic fields during construction; shortest building construction schedule	virtually no impact to existing occupancy; significant sitework requires early construction packages				
Flexibility Enrollment Accommodation Expansion Potential			limited flexibility; limited expansion potential; doesn't accommodate higher enrollments	limited flexibility; limited expansion potential; can accommodate higher enrollments	limited flexibility; limited expansion potential; can't accommodate highest enrollments	some flexibility; limited expansion potential; can accommodate higher enrollments	good flexibility; limited expansion potential; can accommodate higher enrollments				
Operating Costs Maintenance			most renovation areas will have limited envelope improvements; not all existing utilities will be replaced with new; parking garage has limited longevity	most renovation areas will have limited envelope improvements; not all existing utilities will be replaced with new; parking garage has limited longevity	all new construction & MEP systems; good solar orientation, good thermal envelope	all new construction & MEP systems; good thermal envelope	all new construction & MEP systems; best thermal envelope/ compact foortprint				
Site Access Safety & Security Circulation			existing car & bus separation and service access; limited parking by event entrance; limited separation of Breakheart traffic	existing car & bus separation; limited parking by event entrance; reduced service access; limited separation of Breakheart traffic	good car & bus separation; parking divides fields; convenenient visitor parking, good service access; limited separation from Breakheart traffic	good car & bus separation; convenenient visitor parking, good service access; limited separation from Breakheart traffic	new primary access road; good car & bus separation; good separation from Breakheart traffic				
Final Site layout Site amenities			all existing fields to be reconstructed within limited area; less than desirable accessibility to fields	all existing fields to be reconstructed within limited area; less than desirable accessibility to fields	New multi-purpose/soccer field, new softball field; renovated track, football, baseball fields. Some accessibility issues remain to upper fields	New track, football, & baseball fields; renovated softball & practice fields. Some accessibility issues remain to lower fields	All new and expanded athletic fields; accessibility from school is less than ideal	Legei			
								5			
								4			
								3			
Totals	1							2			

Matrix of Options

Northeast Metro Tech



Matrix of Options DRAFT

	Updated:					of option	5 DAA				
	D R A FT 7.22.2020	Families of Conceptual Options									
	Families of Options:		A		3		С	D			
7	MSB Requir		Renovation	Add/	Reno	Net	w Construction O	New Construction Off-Site			
,	Enrollment	Base Repair A.1		B.1	B.2	C.1	C.2. 1	C.3. 1	C.2.A	?D.1?	
a.	1,250 Students	doesn't address any educational deficiencies	Х	B.1a	B.2a	C.1a	C.2.1a	C.3.1a	C.2.Aa	D.1a	
b.	1,400 Students	Х	Х	B.1b	B.2b	C.1b	C.2.1b	C.3.1b	C.2.Ab	D.1b	
c.	1,600 Students	Х	Х	B.1c	B.2c	C.1c	C.2.1c	C.3.1c	C.2.Ac	D.1c	
d.	1,660 Students	Х	Х	B.1d	B.2d	C.1d	C.2.1d	C.3.1d	C.2.Ad	D.1d	
e.	1,722 Students	Х	Х	B.1e	B.2e	C.1e	C.2.1e	C.3.1e	C.2.Ae	D.1e	

Summary of Costs

						Cost Su	ımmary o	f Options			DRAFT			
	Updated: URAFI 8 12 2020	Families of Conceptual Options												
	Families of Options:			Α	B					c				
			MSBA Required	Renovation	Add/Reno				New Construction On-Site					
Enr	Enrollment		Base Repair	A.1	B.1		B.2		C.1		C.2		C.3	
					Range of Costs		Range of Costs		Range of Costs		Range of Costs		Range of Costs	
					10111	lai <u>i</u> th	10111	rh <u>ai</u> th	1044	hi <u>i</u> nh	1044	la <u>ia</u> th	1044	/ <u>1/1</u> /1
		Construction Cost	\$94.9 M		\$150	- \$183 M	\$151	- \$184 M	\$168 -	\$197 M	\$171	\$201 M	\$175 -	\$202 M
	1,250 Students	PROJECT COST	\$115 M	X	\$195	- \$247 M	\$196 -	\$249 M	\$210 -	\$256 M	\$214 -	\$261 M	\$218 -	\$263 M
Г		Construction Cost	1		\$166	- \$203 M	\$167	- \$204 M	\$183 -	\$215 M	\$186	\$219 M	\$190 -	\$220 M
	1,400 Students	PROJECT COST	-	X	\$216	- \$275 M	\$217 -	\$276 M	\$229 -	\$279 M	\$233 -	\$284 M	\$237 -	\$286 M
\square		Construction Cost					\$191	- \$233 M	\$204 -	\$239 M	\$208	\$244 M	\$211 -	\$245 M
	1,600 Students	PROJECT COST		Х			\$248 -	\$315 M	\$255 -	\$311 M	\$260 -	\$317 M	\$264 -	\$319 M
		Construction Cost					\$197	- \$240 M			\$213	\$250 M	\$217 -	\$251 M
0	1,660 Students	PROJECT COST	-	X			\$256 -	\$324 M			\$267 -	\$326 M	\$271 -	\$327 M
\top		Construction Cost					\$203	- \$248 M			\$219	\$257 M	\$223 -	\$258 M
6	1,722 Students	PROJECT COST		X			\$264 -	\$335 M	-		\$\$274 -	\$335 M	\$278 -	\$336 M

Preferred Schematic



Northeast Metropolitan Regional Vocational High School

Process

Upcoming Meetings:

- Weekly Project Team
- Bi-Weekly Working Group
- Monthly Building Committee
- Faculty, Department Heads & Instructors
- Advisory Committees
- Community Meetings
- Conservation Commission
- Local Officials- Building, Fire, Traffic
- Security Administration, First Responders

